

SS	SSSSSSSS	NN	NN	DDDDDDDD	EEEEEEEEE	RRRRRRRR	LL
SS	SSSSSSSS	NN	NN	DDDDDDDD	EEEEEEEEE	RRRRRRRR	LL
SS	NN	NN	DD	DD	EE	RR	RR
SS	NN	NN	DD	DD	EE	RR	RR
SS	NNNN	NN	DD	DD	EE	RR	RR
SS	NNNN	NN	DD	DD	EE	RR	RR
SS	SSSSSS	NN	NN	DD	DD	EEEEEEEEE	RRRRRRRR
SS	SSSSSS	NN	NN	DD	DD	EEEEEEEEE	RRRRRRRR
SS	NN	NNNN	DD	DD	EE	RR	RR
SS	NN	NNNN	DD	DD	EE	RR	RR
SS	NN	NN	DD	DD	EE	RR	RR
SS	NN	NN	DD	DD	EE	RR	RR
SS	SSSSSSSS	NN	NN	DDDDDDDD	EEEEEEEEE	RR	RR
SS	SSSSSSSS	NN	NN	DDDDDDDD	EEEEEEEEE	RR	RR

....

LL	IIIIII	SSSSSSSS
LL	IIIIII	SSSSSSSS
LL	II	SS
LL	IIIIII	SSSSSSSS
LL	IIIIII	SSSSSSSS

```
1 0001 0 MODULE SNDERL (
2 0002 0           LANGUAGE (BLISS32),
3 0003 0           IDENT = 'V04-000'
4 0004 0           ) =
5 0005 1 BEGIN
6 0006 1
7 0007 1
8 0008 1 ****
9 0009 1 *
10 0010 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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26 0026 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
27 0027 1 *
28 0028 1 *
29 0029 1 ****
30 0030 1
31 0031 1 ++
32 0032 1
33 0033 1 FACILITY: F11ACP Structure Level 1
34 0034 1
35 0035 1 ABSTRACT:
36 0036 1
37 0037 1     This routine sends a message to the error logger to inform it of a
38 0038 1     volume mount or dismount.
39 0039 1
40 0040 1 ENVIRONMENT:
41 0041 1
42 0042 1     STARLET operating system, including privileged system services
43 0043 1     and internal exec routines.
44 0044 1
45 0045 1 --
46 0046 1
47 0047 1
48 0048 1 AUTHOR: Andrew C. Goldstein, CREATION DATE: 23-Jun-1978 18:47
49 0049 1
50 0050 1 MODIFIED BY:
51 0051 1
52 0052 1     V03-001 LMP0221 L. Mark Pilant, 27-Mar-1984 14:46
53 0053 1     Change UCB$L_OWNNUIC to ORBSL_OWNER and UCB$W_VPROT to
54 0054 1     ORBSW_PROT.
55 0055 1
56 0056 1     A0101 ACG0113 Andrew C. Goldstein, 15-Jan-1980 22:58
57 0057 1     Fill in volume set data in error log message
```

```
58 0058 1
59 0059 1 | A0100 ACG00001 Andrew C. Goldstein, 10-Oct-1978 20:03
60 0060 1 | Previous revision history moved to F11A.REV
61 0061 1 | **
62 0062 1
63 0063 1
64 0064 1 LIBRARY 'SYSS$LIBRARY:LIB.L32';
65 0065 1 REQUIRE 'SRC$:FCPDEF.B32';
66 1056 1
67 1057 1
68 1058 1 | This routine is called at raised IPL and must be locked into the working set.
69 1059 1
70 1060 1
71 1061 1 LOCK_CODE;
```

```
73 1062 1 GLOBAL ROUTINE SEND_ERRLOG (MODE, UCB) =  
74 1063 1  
75 1064 1 ++  
76 1065 1  
77 1066 1 FUNCTIONAL DESCRIPTION:  
78 1067 1  
79 1068 1 This routine sends a message to the error logger to inform it of a  
80 1069 1 volume mount or dismount.  
81 1070 1  
82 1071 1  
83 1072 1 CALLING SEQUENCE:  
84 1073 1 SEND_ERRLOG (ARG1, ARG2)  
85 1074 1  
86 1075 1 INPUT PARAMETERS:  
87 1076 1 ARG1: 1 to signal mount  
88 1077 1 0 to signal dismount  
89 1078 1 ARG3: address of UCB  
90 1079 1  
91 1080 1 IMPLICIT INPUTS:  
92 1081 1 NONE  
93 1082 1  
94 1083 1 OUTPUT PARAMETERS:  
95 1084 1 NONE  
96 1085 1  
97 1086 1 IMPLICIT OUTPUTS:  
98 1087 1 NONE  
99 1088 1  
100 1089 1 ROUTINE VALUE:  
101 1090 1 1  
102 1091 1  
103 1092 1 SIDE EFFECTS:  
104 1093 1 Message sent to error logger  
105 1094 1  
106 1095 1 --  
107 1096 1  
108 1097 2 BEGIN  
109 1098 2  
110 1099 2 MAP  
111 1100 2 UCB : REF BBLOCK; ! UCB argument  
112 1101 2  
113 1102 2 LINKAGE  
114 1103 2 L_ERL_ALLOC = JSB (REGISTER = 1);  
115 1104 2 GLOBAL (ADDRESS = 2);  
116 1105 2 NOTUSED (3, 4, 5, 6, 7, 8, 9, 10, 11);  
117 1106 2  
118 1107 2 L_ERL_RELEASE = JSB (REGISTER = 2);  
119 1108 2 NOTUSED (3, 4, 5, 6, 7, 8, 9, 10, 11);  
120 1109 2  
121 1110 2 LOCAL  
122 1111 2 ORB : REF BBLOCK; ! local address of ORB  
123 1112 2 MSG_BUFFER : REF BBLOCK; ! other buffer pointer to dodge MOVC  
124 1113 2  
125 1114 2 EXTERNAL ROUTINE  
126 1115 2 ERL$ALLOCEMB : L_ERL_ALLOC ADDRESSING_MODE (GENERAL);  
127 1116 2 ! allocate error log buffer  
128 1117 2 ERL$RELEASEMB : L_ERL_RELEASE ADDRESSING_MODE (GENERAL);  
129 1118 2 ! release error log buffer
```

```
130      1119 2
131      1120 2
132      1121 2  ! Allocate an error log buffer. If this fails, forget it.
133      1122 2
134      1123 2
135      1124 3 BEGIN
136      1125 3 GLOBAL REGISTER
137          ADDRESS      = 2 : REF BBLOCK; ! pointer to error log buffer
138
139      1128 2 IF NOT ERL$ALLOCUMB (EMBSK_VM_LENGTH)
140      1129 2 THEN RETURN 1;
141      1130 2 MSG_BUFFER = .ADDRESS;
142      1131 2 END;
143
144      1132 2 ! Now fill in the message buffer.
145      1133 2
146      1135 2
147      1136 2 IF .MODE
148      1137 2 THEN MSG_BUFFER[EMBSW_VM_ENTRY] = EMBSK_VM
149      1138 2 ELSE MSG_BUFFER[EMBSW_VM_ENTRY] = EMBSK_VD;      ! log entry type
150
151      1140 2 ORB = .UCB[UCBSL_ORB];
152      1141 2 MSG_BUFFER[EMBSL_VM_OWNUIC]      = .ORB[ORB$L_OWNER];
153      1142 2 MSG_BUFFER[EMBSL_VM_ERRCNT]      = .UCB[UCBSW_ERRCNT];
154      1143 2 MSG_BUFFER[EMBSL_VM_OPRCNT]      = .UCB[UCBSL_OPCNT];
155      1144 2 MSG_BUFFER[EMBSW_VM_UNIT]        = .UCB[UCBSW_UNIT];
156
157      1145 2
158      1146 2 MSG_BUFFER[EMBSW_VM_VOLNUM]      = 0;
159      1147 2 MSG_BUFFER[EMBSW_VM_NUMSET]        = 0;
160
161      1149 2 CH$MOVE (.BBLOCK [.UCB[UCBSL_DDB], DDB$T_NAME])<0,8> + 1,
162          BBLOCK [.UCB[UCBSL_DDB], DDB$T_NAME],
163          MSG_BUFFER[EMBSB_VM_NAMLNG];
164
165      1153 2 IF .BBLOCK[UCB[UCBSL_DEVCHAR], DEV$V FOR]
166      1154 2 OR NOT .BBLOCK[UCB[UCBSL_DEVCHAR], DEV$V_SQD]
167      1155 2 THEN
168          1156 3 BEGIN
169              1157 3 LOCAL
170                  VCB      : REF BBLOCK;      ! address of volume control block
171                  RVT      : REF BBLOCK;      ! address of relative volume table
172
173          1161 3 VCB = .UCB[UCBSL_VCB];
174          1162 3 IF .VCB[VCBSW_RVN] NEQ 0
175          1163 3 THEN
176              1164 4 BEGIN
177                  1165 4 RVT = .VCB[VCBSL_RVT];
178                  1166 4 MSG_BUFFER[EMBSW_VM_VOLNUM] = .VCB[VCBSW_RVN];
179                  1167 4 MSG_BUFFER[EMBSW_VM_NUMSET] = .RVT[RVT$B_NVOL$];
180
181          1169 3 END;
182          1170 3 CH$MOVE (VCB$S_VOLNAME,
183                          BBLOCK [.UCB[UCBSL_VCB], VCB$T_VOLNAME],
184                          MSG_BUFFER[EMBS$T_VM_LABEL]);
185
186          1172 3 END
187          1173 2 ELSE
188              1174 3 BEGIN
189                  LOCAL
```

```

187      1176 3      MVL      : REF BBLOCK,          ! magtape volume labels
188      1177 3      MVL_ENTRY : REF BBLOCK,          ! address of label entry
189      1178 3      RUN,          : REF BBLOCK,          ! relative unit number
190      1179 3      RVT       : REF BBLOCK,          ! relative volume table
191      1180 3      UCBLIST  : REF VECTOR,          ! address of UCB list
192      1181 3      VCB       : REF BBLOCK;          ! volume control block
193      1182 3      VCB = .UCB[UCBSL_VCB];
194      1183 3      RVT = .VCB[VCBSL_RVT];
195      1184 3      UCBLIST = RVT[RVTSI_UCBLST];
196      1185 3      MVL = .VCB[VCBSL_MV];
197      1186 3      MSG_BUFFER[EMBSW_VM_NUMSET] = .MVL[MVL$B_NVOLS]; ! no of volumes in vol set known
198      1187 3      CH$FILL(' ',VCBS$_VOLNAME,MSG_BUFFER[EMBS$T_VM_LABEL]);
199      1188 3      INCR I FROM 0 TO .RVTSI_RVT$B_NVOLS] - 1 DO
200      1189 4      BEGIN
201      1190 4      RUN = .I;
202      1191 4      IF .UCBLIST[.I] EQL .UCB THEN EXITLOOP;
203      1192 3      END;
204      1193 3      MVL_ENTRY = .MVL + MVL$K_FIXLEN;
205      1194 3      INCR I FROM 0 TO .MVL[MV[$B_NVOLS] - 1 DO
206      1195 4      BEGIN
207      1196 4      IF .MVL_ENTRY[MVL$B_RVN] EQL .RUN
208      1197 4      AND .MV[ENTRY[MVL$V_MOUNTED]
209      1198 4      THEN
210      1199 5      BEGIN
211      1200 5      MSG_BUFFER[EMBSW_VM_VOLNUM] = .I + 1;
212      1201 5      CH$COPY(MVL$S_VO[LBC, MVL_ENTRY[MVL$T_VOLLBL], ' ',
213      1202 5      VCB$S_VOLNAME,MSG_BUFFER[EMBS$T_VM_LABEL]);
214      1203 5      EXITLOOP;
215      1204 4      END;
216      1205 4      MVL_ENTRY = .MVL_ENTRY + MVL$K_LENGTH;
217      1206 3      END;
218      1207 2      END;
219      1208 2      ! Finally release the buffer and make the entry.
220      1209 2
221      1210 2
222      1211 2
223      1212 2      ERL$RELEASEMB (.MSG_BUFFER);
224      1213 2
225      1214 2      RETURN 1;
226      1215 2
227      1216 1      END;                                ! end of routine SEND_ERRLOG

```

```

.TITLE SNDERL
.IDENT \V04-000\

.EXTRN ERL$ALLOCEMB, ERL$RELEASEMB

.PSECT $LOCKEDC1$,NOWRT,2

        07FC 00000
        .ENTRY SEND_ERRLOG, Save R2,R3,R4,R5,R6,R7,R8,R9,- : 1062
        R10
        51 00000000G 3E D0 00002      MOVL #62, R1 : 1128
        03 000000005 00 16 00005      JSB ERL$ALLOCEMB
        00F4 50 E8 0000B      BLBS R0, 1$ : 1130
        59 00011 1$:      BRW 14$ : 1130
        52 D0 00011 1$:      MOVL ADDRESS, MSG_BUFFER

```

04	07	04	AC	E9	00014	BLBC	MODE, 2\$	1136		
	A9	40	8F	9B	00018	MOVZBW	#64, 4(MSG_BUFFER)	1137		
04	A9	41	8F	9B	0001F	2\$: BRB	3\$	1138		
	50	08	AC	D0	00024	MOVZBW	#65, 4(MSG_BUFFER)	1140		
50	1C	A0	DO	00028	MOVBL	UCB, R0	1141			
10	A9	60	DO	0002C	MOVBL	28(R0), ORB	1142			
50	08	AC	DO	00030	MOVBL	(ORB), 16(MSG_BUFFER)	1143			
14	A9	0082	CO	3C	00034	MOVZWL	130(R0), 20(MSG_BUFFER)	1144		
50	08	AC	DO	0003A	MOVBL	UCB, R0	1145			
18	A9	70	AO	DO	0003E	MOVBL	112(R0), 24(MSG_BUFFER)	1146		
50	08	AC	DO	00043	MOVBL	UCB, R0	1147			
1C	A9	54	A0	BO	00047	MOVW	84(R0), 28(MSG_BUFFER)	1148		
	2E	A9	D4	0004C	CLRL	46(MSG_BUFFER)	1149			
50	08	AC	DO	0004F	MOVBL	UCB, R0	1150			
50	28	A0	DO	00053	MOVBL	40(R0), R0	1151			
51	14	A0	9A	00057	MOVZBL	20(R0), R1	1152			
	51	D6	0005B		INCL	R1	1153			
1E	A9	14	A0	51	28	0005D	MOV3	R1, 20(R0), 30(MSG_BUFFER)	1154	
	51	08	AC	DO	00063	MOVBL	UCB, R1	1155		
50	08	AC	DO	00067	MOVBL	UCB, R0	1156			
05	3B	A0	E8	0006B	BLBS	59(R0), 4\$	1157			
27	38	A0	05	E0	0006F	BBS	#5, 56(R0), 6\$	1158		
	50	34	A1	DO	00074	4\$: MOVBL	52(R1), VCB	1159		
	0E	A0	B5	00078	TSTW	14(VCB)	1160			
	0E	13	0007B		BEQL	5\$	1161			
	51	20	A0	DO	0007D	MOVBL	32(VCB), RVT	1162		
2E	A9	0E	A0	BO	00081	MOVW	14(VCB), 46(MSG_BUFFER)	1163		
30	A9	0B	A1	9B	00086	MOVZBW	11(RVT), 48(MSG_BUFFER)	1164		
	50	08	AC	DO	0008B	5\$: MOVBL	UCB, R0	1165		
	50	34	A0	DO	0008F	MOVBL	52(R0), R0	1166		
32	A9	14	A0	0C	28	00093	MOV3	#12, 20(R0), 50(MSG_BUFFER)	1167	
		61	11	00099	BRB	13\$	1168			
	50	34	A1	DO	0009B	6\$: MOVBL	52(R1), VCB	1169		
	56	20	A0	DO	0009F	MOVBL	32(VCB), RVT	1170		
	58	44	A6	9E	000A3	MOVAB	68(R6), UCBLIST	1171		
	57	34	A0	DO	000A7	MOVBL	52(VCB), MVL	1172		
0C	20	30	A9	0B	A7	9B	000AB	MOVZBW	11(MVL), 48(MSG_BUFFER)	1173
	6E	00	2C	000B0	MOVCS	#0, (SP), #32, #12, 50(MSG_BUFFER)	1174			
	32	A9	00B5					1175		
	51	0B	A6	9A	000B7	MOVZBL	11(RVT), R1	1176		
	50	01	CE	000BB	MNEGL	#1, I	1177			
	0A	11	000BE		BRB	8\$	1178			
08	5A	50	DO	000C0	7\$: MOVBL	I, RUN	1179			
	AC	6840	D1	000C3	CMPBL	(UCBLIST)[I], UCB	1180			
	04	13	000C8		BEQL	9\$	1181			
F2	50	51	F2	000CA	8\$: AOBLS	R1, I, 7\$	1182			
	58	24	A7	9E	000CE	MOVAB	36(R7), MVL_ENTRY	1183		
	57	0B	A7	9A	000D2	MOVZBL	11(MVL), R7	1184		
	56	01	CE	000D6	MNEGL	#1, I	1185			
		1D	11	000D9	BRB	12\$	1186			
5A	06	A8	08	00	ED	000DB	10\$: CMPZV	#0, #8, 6(MVL_ENTRY), RUN	1187	
			12	12	000E1	BNEQ	11\$	1188		
0C	2E	A9	0E	07	A8	E9	000E3	BLBC	7(MVL_ENTRY), 11\$	1189
	56	01	A1	000E7	ADDW3	#1, I, 46(MSG_BUFFER)	1190			
	20	68	06	2C	000EC	MOVCS	#6, (MVL_ENTRY), #32, #12, 50(MSG_BUFFER)	1191		
	32	A9	000F1					1192		

SNDERL
VO4-000

N 8
16-Sep-1984 01:16:43 14-Sep-1984 12:30:48 VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[F11X.SRC]SNDERL.B32;1 Page 7 (2)

DF	58	07 11 000F3	BRB 13\$: 1199
	56	08 C0 000F5 11\$:	ADDL2 #8, MVL ENTRY	: 1205
	52	57 F2 000F8 12\$:	AOBLSS R7, I, TOS	: 1194
	50 00000000G	59 D0 000FC 13\$:	MOVL MSG BUFFER, R2	: 1212
		00 16 000FF	JSB ERL\$RELEASEMB	: 1214
		01 D0 00105 14\$:	MOVL #1, R0	: 1216
		04 00108	RET	

: Routine Size: 265 bytes, Routine Base: \$LOCKEDC1\$ + 0000

: 228 1217 1
: 229 1218 1 END
: 230 1219 0 ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes
\$LOCKEDC1\$	265	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Library Statistics

File	----- Symbols -----	Pages Mapped	Processing Time
	Total Loaded Percent		
\$_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619 54 0	1000	00:02.0

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:SNDERL/OBJ=OBJ\$:SNDERL MSRC\$:SNDERL/UPDATE=(ENH\$:SNDERL)

: Size: 265 code + 0 data bytes
: Run Time: 00:12.6
: Elapsed Time: 00:25.5
: Lines/CPU Min: 795
: Lexemes/CPU-Min: 2396
: Memory Used: 178 pages
: Compilation Complete

0173 AH-BT13A-SE
VAX/VMS V4.0

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